MOMPARSE

LIS

```
    1    0001  0
    2    0002  0  %TITLE 'Maintenance Operations NPARSE action routines for parsing parameters'
    3    0003  0  MODULE MOMPARSE (
    4    0004  0                              LANGUAGE (BLISS32),
    5    0005  0                              ADDRESSING_MODE (NONEXTERNAL=GENERAL),
    6    0006  0                              ADDRESSING_MODE (EXTERNAL=GENERAL),
    7    0007  0                              IDENT = 'V04-000'
    8    0008  0                              ) =
    9    0009  1  BEGIN
   10    0010  1
   11    0011  1  !***********************************************************************
   12    0012  1  !*                                                                     *
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   30    0030  1  !*                                                                     *
   31    0031  1  !*                                                                     *
   32    0032  1  !***********************************************************************
   33    0033  1
   34    0034  1
   35    0035  1  !++
   36    0036  1  ! FACILITY:  DECnet-VAX V2.0 Network Management Listener
   37    0037  1  !
   38    0038  1  !
   39    0039  1  ! ABSTRACT:
   40    0040  1  !    This module contains action routines called by NPARSE to parse and
   41    0041  1  !    store NICE entity parameters.
   42    0042  1  !
   43    0043  1  ! ENVIRONMENT:  VAX/VMS Operating System
   44    0044  1  !
   45    0045  1  ! AUTHOR:  Kathy Perko
   46    0046  1  !
   47    0047  1  ! CREATION DATE:  2-Jan-1983
   48    0048  1  !
   49    0049  1  ! MODIFIED BY:
   50    0050  1  !     V03-005 MKP0005           Kathy Perko            13-July-1984
   51    0051  1  !             Change NODE SERVICE PASSWORD from an H-8 field to an HI-8
   52    0052  1  !             field.  The architecture conflicts with itself about it.
   53    0053  1  !
   54    0054  1  !     V03-004 MKP0004           Kathy Perko            6-June-1984
   55    0055  1  !             Don't apply area 1 fix to exec.
   56    0056  1  !
   57    0057  1  !     V03-003 MKP0003           Kathy Perko            1-May-1984
```

```
  58    0058  1 |           Check for correct loop assistant parameter ID in LOOP
  59    0059  1 |           CIRCUIT parameter consistency check.
  60    0060  1 |
  61    0061  1 |   V03-002 MKP0002        Kathy Perko            28-Mar-1984
  62    0062  1 |           Fix area 1 problem.
  63    0063  1 |
  64    0064  1 |   V03-001 MKP0001        Kathy Perko            29-Jan-1984
  65    0065  1 |           Do some cross checking on LOOP CIRCUIT parameters.
  66    0066  1 |           Add a routine to check for loopback assist request messages,
  67    0067  1 |           and a routine to use the MOP message software ID field as
  68    0068  1 |           a load file ID.
  69    0069  1 |
  70    0070  1 |--
  71    0071  1
```

```
   73    0072  1  %SBTTL 'Declarations'
   74    0073  1
   75    0074  1  !
   76    0075  1  ! TABLE OF CONTENTS:
   77    0076  1  !
   78    0077  1
   79    0078  1  FORWARD ROUTINE
   80    0079  1      mom$parse_nice_entity,
   81    0080  1      mom$parse_function,
   82    0081  1      mom$parse_option,
   83    0082  1      mom$parse_entity_id,
   84    0083  1      mom$save_param,
   85    0084  1      mom$save_node_id,
   86    0085  1      mom$check_node_entity,
   87    0086  1      mom$check_loop_params,
   88    0087  1      mom$mop_chk_loop_assist,
   89    0088  1      mom$save_mop_msg,
   90    0089  1      mom$save_load_file_id,
   91    0090  1      mom_fix_node_num:    NOVALUE,
   92    0091  1      mom$parse_error:     NOVALUE,
   93    0092  1      mom$prsmoperr;
   94    0093  1
   95    0094  1  !
   96    0095  1  ! INCLUDE FILES:
   97    0096  1  !
   98    0097  1
   99    0098  1  LIBRARY 'LIB$:MOMLIB.L32';
  100    0099  1  LIBRARY 'SHRLIB$:NMALIBRY.L32';
  101    0100  1  LIBRARY 'SHRLIB$:NET.L32';
  102    0101  1  LIBRARY 'SYS$LIBRARY:STARLET.L32';
  103    0102  1
  104    0103  1  !
  105    0104  1  ! EXTERNAL REFERENCES:
  106    0105  1  !
  107    0106  1
  108    0107  1  $mom_externals;                      ! Macro with common MOM externals.
  109    0108  1
  110    0109  1  EXTERNAL LITERAL
  111    0110  1      mom$_badmopfct;
  112    0111  1
  113    0112  1  EXTERNAL
  114    0113  1      mom$npa_init,                    ! Nparse table for NICE message entities.
  115    0114  1      mom$ab_ncp_version;
  116    0115  1
  117    0116  1  EXTERNAL ROUTINE
  118    0117  1      nma$nparse,
  119    0118  1      mom$build_p2,
  120    0119  1      mom$netacp_qio,
  121    0120  1      mom$error;
```

MOMPARSE   I 6
V04-000   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 4
               mom$parse_nice_entity Initial message parsing 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (3)

```
123    0121   1 %SBTTL 'mom$parse_nice_entity  Initial message parsing routine'
124    0122   1 GLOBAL ROUTINE mom$parse_nice_entity =
125    0123   1
126    0124   1 !++
127    0125   1 ! FUNCTIONAL DESCRIPTION:
128    0126   1 !       This routine invokes the NPARSE facility to check the funcition,
129    0127   1 !       option, and entity codes in a NICE request received from NCP.
130    0128   1 !
131    0129   1 ! IMPLICIT OUTPUTS:
132    0130   1 !
133    0131   1 !       MOM$GB_FUNCTION contains the function code.
134    0132   1 !       MOM$GB_OPTION_BYTE  contains the option codes.
135    0133   1 !       MOM$GL_ENTITY_CODE  contains the entity code.
136    0134   1 !       MOM$AB_NPARSE_BLK contains parsing information about the remainder
137    0135   1 !               of the message.
138    0136   1 !
139    0137   1 ! ROUTINE VALUE:
140    0138   1 ! COMPLETION CODES:
141    0139   1 !       If the parse fails then the error is signalled, and a NICE error
142    0140   1 !       response is built with the error specified by the parse state
143    0141   1 !       table. Otherwise success is returned.
144    0142   1 !
145    0143   1 !--
146    0144   1
147    0145   2 BEGIN
148    0146   2
149    0147   2 LOCAL
150    0148   2     status;                                  ! Temporary status
151    0149   2 !
152    0150   2 ! Initialize message parsing data
153    0151   2 !
154    0152   2 mom$gl_service_flags = 0;                     ! Clear internal options flags
155    0153   2 !
156    0154   2 ! Initialize the NPARSE argument block with the address and length
157    0155   2 ! of the NICE message to be parsed.  Then call the NPARSE facility
158    0156   2 ! to parse the function, option, and entity fields of the message.
159    0157   2 !
160    0158   2 mom$ab_nparse_blk [npa$l_msgptr] = mom$ab_nice_rcv_buf;
161    0159   2 mom$ab_nparse_blk [npa$l_msgcnt] = .mom$gl_nice_rcv_msg_len;
162    0160   2
163    0161   2 nma$nparse (mom$ab_nparse_blk, mom$npa_init);
164    0162   2 !
165    0163   2 ! If control returns here, the message parsed correctly.  Otherwise,
166    0164   2 ! an error was signalled and an error response returned to NCP via
167    0165   2 ! NML.
168    0166   2 !
169    0167   2 RETURN success
170    0168   2
171    0169   1 END;                                     ! End of MOM$PARSE_NICE_ENTITY
```

```
                                        .TITLE   MOMPARSE Maintenance Operations NPARSE action r
                                                 outines f
                                        .IDENT   \V04-000\

                                        .EXTRN   MOM$GL_LOGMASK, MOM$GL_SVD_INDEX
                                        .EXTRN   MOM$AB_SERVICE_DATA
```

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MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 5
V04-000   mom$parse_nice_entity Initial message parsing 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (3)

```
                                        .EXTRN   MOM$GB_FUNCTION
                                        .EXTRN   MOM$GB_OPTION_BYTE
                                        .EXTRN   MOM$GB_ENTITY_CODE
                                        .EXTRN   MOM$AB_ENTITY_BUF
                                        .EXTRN   MOM$GQ_ENTITY_BUF_DSC
                                        .EXTRN   MOM$GL_SERVICE_FLAGS
                                        .EXTRN   MOM$AB_NPARSE_BLK
                                        .EXTRN   MOM$AB_NICE_RCV_BUF
                                        .EXTRN   MOM$AB_NICE_XMIT_BUF
                                        .EXTRN   MOM$GQ_NICE_RCV_BUF_DSC
                                        .EXTRN   MOM$GL_NICE_RCV_MSG_LEN
                                        .EXTRN   MOM$GQ_NICE_XMIT_BUF_DSC
                                        .EXTRN   MOM$AB_MSGBLOCK
                                        .EXTRN   MOM$AB_ACPQIO_BUFFER
                                        .EXTRN   MOM$GQ_ACPQIO_BUF_DSC
                                        .EXTRN   MOM$AB_CIB, MOM$AB_LOOP_CIB
                                        .EXTRN   MOM$AB_TRIGGER_CIB
                                        .EXTRN   MOM$AB_MOP_XMIT_BUF
                                        .EXTRN   MOM$GQ_MOP_XMIT_BUF_DSC
                                        .EXTRN   MOM$AB_MOP_RCV_BUF
                                        .EXTRN   MOM$GQ_MOP_RCV_BUF_DSC
                                        .EXTRN   MOM$AB_MOP_MSG, MOM$GQ_MOP_MSG_DSC
                                        .EXTRN   MOM$GW_EVT_CODE
                                        .EXTRN   MOM$GB_EVT_POPR
                                        .EXTRN   MOM$GB_EVT_PRSN
                                        .EXTRN   MOM$GB_EVT_PSER
                                        .EXTRN   SVD$GK_PCNO_ADD
                                        .EXTRN   SVD$GK_PCNO_SDV
                                        .EXTRN   SVD$GK_PCNO_CPU
                                        .EXTRN   SVD$GK_PCNO_STY
                                        .EXTRN   SVD$GK_PCNO_DAD
                                        .EXTRN   SVD$GK_PCNO_DCT
                                        .EXTRN   SVD$GK_PCNO_IHO
                                        .EXTRN   SVD$GK_PCNO_NNA
                                        .EXTRN   SVD$GK_PCNO_SLI
                                        .EXTRN   SVD$GK_PCNO_SPA
                                        .EXTRN   SVD$GK_PCNO_HWA
                                        .EXTRN   SVD$GK_PCNO_SNV
                                        .EXTRN   SVD$GK_PCNO_LOA
                                        .EXTRN   SVD$GK_PCNO_SLO
                                        .EXTRN   SVD$GK_PCNO_TLO
                                        .EXTRN   SVD$GK_PCNO_DFL
                                        .EXTRN   SVD$GK_PCNO_SID
                                        .EXTRN   SVD$GK_PCNO_DUM
                                        .EXTRN   SVD$GK_PCNO_SDU
                                        .EXTRN   SVD$GK_PCNO_$HNA
                                        .EXTRN   SVD$GK_PCNO_$HHW
                                        .EXTRN   SVD$GK_PCNO_$FTY
                                        .EXTRN   SVD$GK_PCNO_PHA
                                        .EXTRN   SVD$GK_PCNO_$DA
                                        .EXTRN   SVD$GK_PCNO_LPC
                                        .EXTRN   SVD$GK_PCNO_LPL
                                        .EXTRN   SVD$GK_PCNO_LPD
                                        .EXTRN   SVD$GK_PCNO_LPH
                                        .EXTRN   SVD$GK_PCNO_LPA
                                        .EXTRN   SVD$GK_PCNO_LPN
                                        .EXTRN   SVD$GK_PCNO_$LNA
```

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V04-000   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page   6
             mom$parse_nice_entity Initial message parsing 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1   (3)

```
                                                              .EXTRN    SVD$GK_PCNO_$LNH
                                                              .EXTRN    SVD$GK_PCNO_LAN
                                                              .EXTRN    SVD$GK_PCNO_$LNN
                                                              .EXTRN    SVD$GK_PCNO_$LAH
                                                              .EXTRN    SVD$GK_PCLI_STI
                                                              .EXTRN    SVD$C_ENTRY_COUNT
                                                              .EXTRN    MOM$_BADMOPFCT, MOM$NPA_INIT
                                                              .EXTRN    MOM$AB_NCP_VERSION
                                                              .EXTRN    NMA$NPARSE, MOM$BUILD_P2
                                                              .EXTRN    MOM$NETACP_QIO, MOM$ERROR

                                                              .PSECT    $CODE$,NOWRT,2

                                     0004 00000               .ENTRY    MOM$PARSE_NICE_ENTITY, Save R2         ; 0122
                 52 00000000G  00  9E 00002                   MOVAB     MOM$AB_NPARSE_BLK+8, R2
                    00000000G  00  D4 00009                   CLRL      MOM$GL_SERVICE_FLAGS                   ; 0152
                 62 00000000G  00  9E 0000F                   MOVAB     MOM$AB_NICE_RCV_BUF, MOM$AB_NPARSE_BLK+8  ; 0158
              FC A2 00000000G  00  D0 00016                   MOVL      MOM$GL_NICE_RCV_MSG_LEN, -             ; 0159
                                                                        MOM$AB_NPARSE_BLK+4
                    00000000G  00  9F 0001E                   PUSHAB    MOM$NPA_INIT                          ; 0161
                          F8  A2  9F 00024                    PUSHAB    MOM$AB_NPARSE_BLK
           00000000G  00      02  FB 00027                    CALLS     #2, NMA$NPARSE
                    50          01  D0 0002E                  MOVL      #1, R0                                ; 0167
                                04 00031                      RET                                             ; 0169
```

; Routine Size: 50 bytes,   Routine Base: $CODE$ + 0000

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MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 7
V04-000   mom$parse_function Store function code (action 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (4)

```
173    0170  1 %SBTTL 'mom$parse_function  Store function code (action routine)'
174    0171  1 GLOBAL ROUTINE mom$parse_function =
175    0172  1
176    0173  1 !++
177    0174  1 ! FUNCTIONAL DESCRIPTION:
178    0175  1 !
179    0176  1 !     Parse and store the function code from the NICE command message.
180    0177  1 !
181    0178  1 ! IMPLICIT OUTPUTS:
182    0179  1 !
183    0180  1 !     MOM$GB_FUNCTION contains the function code.
184    0181  1 !
185    0182  1 ! ROUTINE VALUE:
186    0183  1 ! COMPLETION CODES:
187    0184  1 !
188    0185  1 !     Always returns success (SS$_NORMAL).
189    0186  1 !
190    0187  1 !--
191    0188  1
192    0189  2 BEGIN
193    0190  2
194    0191  2 $npa_argdef;                         ! Define NPARSE block reference
195    0192  2
196    0193  2 mom$gb_function = .nparse_block [npa$b_byte]; ! Set function
197    0194  2
198    0195  2 RETURN ss$_normal
199    0196  2
200    0197  1 END;                                 ! End of MOM$PARSE_FUNCTION
```

```
                            0000 00000          .ENTRY  MOM$PARSE_FUNCTION, Save nothing    ; 0171
        00C00000G  00    18  AC  90 00002        MOVB    24(NPARSE_BLOCK), MOM$GB_FUNCTION   ; 0193
                   50        01  D0 0000A        MOVL    #1, R0                              ; 0195
                            04 0000D            RET                                         ; 0197
```

; Routine Size: 14 bytes,   Routine Base: $CODE$ + 0032

MOMPARSE   M 6
V04-000   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 8
           mom$parse_option Store NICE message option byt 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1   (5)

```
  202    0198  1 %SBTTL 'mom$parse_option  Store NICE message option byte (action routine)'
  203    0199  1 GLOBAL ROUTINE mom$parse_option =
  204    0200  1
  205    0201  1 !++
  206    0202  1 !  FUNCTIONAL DESCRIPTION:
  207    0203  1 !      This routine is a NPARSE action routine that is called while
  208    0204  1 !      parsing a NICE message.  It saves the option byte in a global
  209    0205  1 !      field.
  210    0206  1 !
  211    0207  1 !  IMPLICIT INPUTS:
  212    0208  1 !      NPARSE_BLOCK [NPA$B_BYTE] contains the option byte.
  213    0209  1 !
  214    0210  1 !  ROUTINE VALUE:
  215    0211  1 !  COMPLETION CODES:
  216    0212  1 !      Success (SS$_NORMAL) is always returned.
  217    0213  1 !
  218    0214  1 !--
  219    0215  1
  220    0216  2 BEGIN
  221    0217  2
  222    0218  2 $npa_argdef;                          ! Define NPARSE block reference
  223    0219  2 !
  224    0220  2 ! Save the entity code from the NPARSE argument block
  225    0221  2 !
  226    0222  2 mom$gb_option_byte = .nparse_block [npa$b_byte];
  227    0223  2
  228    0224  2 RETURN ss$_normal
  229    0225  2
  230    0226  1 END;                                  ! End of MOM$PARSE_OPTION
```

```
                                    0000 00000         .ENTRY   MOM$PARSE_OPTION, Save nothing          ; 0199
              00000000G   00      18 AC 90 00002        MOVB    24(NPARSE_BLOCK), MOM$GB_OPTION_BYTE     ; 0222
                          50         01 D0 0000A        MOVL    #1, R0                                   ; 0224
                                        04 0000D         RET                                             ; 0226
```

; Routine Size: 14 bytes,   Routine Base: $CODE$ + 0040

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MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page   9
V04-000   mom$parse_entity_id Parse the service id   14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1   (6)

```
 232   0227   1  %SBTTL 'mom$parse_entity_id  Parse the service id'
 233   0228   1  GLOBAL ROUTINE mom$parse_entity_id =
 234   0229   1
 235   0230   1  !++
 236   0231   1  ! FUNCTIONAL DESCRIPTION:
 237   0232   1  !      Parse the service id code from the MOP message or NICE command.
 238   0233   1  !
 239   0234   1  ! IMPLICIT INPUTS:
 240   0235   1  !      NPARSE_BLOCK [NPA$L_PARAM] contains the MOM internal entity code
 241   0236   1  !            (MOM$C_CIRCUIT, MOM$C_LINE, MOM$C_NODE, or MOM$C_NODEBYNAME).
 242   0237   1  !
 243   0238   1  ! OUTPUTS:
 244   0239   1  !      MOM$AB_ENTITY_BUF contains the entity ID
 245   0240   1  !      MOM$GQ_ENTITY_BUF_DSC contains a descriptor of the entity ID in
 246   0241   1  !            MOM$AB_ENTITY_BUF.
 247   0242   1  !      MOM$GB_ENTITY_CODE contains the MOM internal code for the entity.
 248   0243   1  !--
 249   0244   1
 250   0245   2  BEGIN
 251   0246   2
 252   0247   2  $npa_argdef;
 253   0248   2
 254   0249   2  LOCAL
 255   0250   2      adr,
 256   0251   2      ent,
 257   0252   2      len,
 258   0253   2      svd_index;
 259   0254   2
 260   0255   2  ent = .nparse_block [npa$l_param];
 261   0256   2  !
 262   0257   2  ! Select parse table according to entity code.
 263   0258   2  !
 264   0259   2  SELECTU .ent OF
 265   0260   2      SET
 266   0261   2
 267   0262   2      [mom$c_node]:
 268   0263   3          BEGIN
 269   0264   3          MAP
 270   0265   3              adr: REF BBLOCK;
 271   0266   3          len = 2;
 272   0267   3          adr = .nparse_block [npa$l_fldptr];
 273   0268   3          svd_index = svd$gk_pcno_add;
 274   0269   3          !
 275   0270   3          ! If the node area is 0 and it's not a Phase III (or less) NCP,
 276   0271   3          ! change to area 1.
 277   0272   3          !
 278   0273   3          mom_fix_node_num (.adr);
 279   0274   3          END;
 280   0275   2
 281   0276   2      [mom$c_line, mom$c_nodebyname]:
 282   0277   3          BEGIN
 283   0278   3          len = .(.nparse_block [npa$l_fldptr])<0,8>;
 284   0279   3          adr = .nparse_block [npa$l_fldptr] + 1;
 285   0280   3          IF .ent EQL mom$c_line THEN
 286   0281   3              svd_index = svd$gk_pcno_sli
 287   0282   3          ELSE
 288   0283   3              svd_index = svd$gk_pcno_nna;
```

```
289    0284  2            END;
290    0285  2
291    0286  2        [mom$c_circuit]:
292    0287  2            BEGIN
293    0288  3            len = .(.nparse_block [npa$l_fldptr])<0,8>;
294    0289  3            adr = .nparse_block [npa$l_fldptr] + 1;
295    0290  3            svd_index = svd$gk_pcno_sli;
296    0291  2            END;
297    0292  2
298    0293  2        [ALWAYS]:
299    0294  2            BEGIN
300    0295  3            CH$MOVE (.len, .adr, mom$ab_entity_buf);
301    0296  3            mom$gq_entity_buf_dsc [0] = .len;
302    0297  3            !
303    0298  3            ! Put the entity ID into the Service Data Table so it will
304    0299  3            ! override the value returned from the volatile database.
305    0300  3            !
306    0301  3            mom$ab_service_data [.svd_index, svd$b_string_len] = .len;
307    0302  3            CH$MOVE (.len,
308    0303  3                    .adr,
309    0304  3                    mom$ab_service_data [.svd_index, svd$t_string]);
310    0305  3            mom$ab_service_data [.svd_index, svd$v_msg_param] = true;
311    0306  2            END;
312    0307  2
313    0308  2        TES;
314    0309  2  !
315    0310  2  ! Save the entity code.
316    0311  2  !
317    0312  2  mom$gb_entity_code = .ent;
318    0313  2
319    0314  2  RETURN ss$_normal
320    0315  2
321    0316  1 END;                                    ! End of mom$parse_entity_id
```

```
                                    OFFC 00000        .ENTRY    MOM$PARSE_ENTITY_ID, Save R2,R3,R4,R5,R6,-  ; 0228
                                                                R7,R8,R9,R10,R11
                  5B 00000000G  8F  D0 00002          MOVL      #SVD$GK_PCNO_SLI, R11
                  5A 00000000G  00  9E 00009          MOVAB     MOM$AB_SERVICE_DATA+8, R10
                  59        20  AC  D0 00010          MOVL      32(NPARSE_BLOCK), ENT                      ; 0255
                            17  12 00014              BNEQ      1$                                         ; 0262
                            57  02  D0 00016          MOVL      #2, LEN                                    ; 0266
                  58        14  AC  D0 00019          MOVL      20(NPARSE_BLOCK), ADR                      ; 0267
                  56 00000000G  8F  D0 0001D          MOVL      #SVD$GK_PCNO_ADD, SVD_INDEX               ; 0268
                            58  DD 00024              PUSHL     ADR                                        ; 0273
       00000000V  00        01  FB 00026              CALLS     #1, MOM_FIX_NODE_NUM
                  01        59  D1 0002D  1$:         CMPL      ENT, #1                                    ; 0276
                            05  13 00030              BEQL      2$
                            03  59  D1 00032          CMPL      ENT, #3
                            1A  12 00035              BNEQ      4$
                  57        14  BC  9A 00037  2$:     MOVZBL    @20(NPARSE_BLOCK), LEN                     ; 0278
       58        14  AC     01  C1 0003B              ADDL3     #1, 20(NPARSE_BLOCK), ADR                 ; 0279
                            03  59  D1 00040          CMPL      ENT, #3                                    ; 0280
                            05  12 00043              BNEQ      3$
```

```
                              56               5B  D0 00045        MOVL    R11, SVD_INDEX                                        ; 0281
                                               07  11 00048        BRB     4$
                              56 00000000G     8F  D0 0004A 3$:    MOVL    #SVD$GK_PCNO_NNA, SVD_INDEX                           ; 0283
                              02               59  D1 00051 4$:    CMPL    ENT, #2                                               ; 0286
                    57              14         BC  9A 00056        MOVZBL  @20(NPARSE_BLOCK), LEN                                ; 0288
              58         14  AC                01  C1 0005A        ADDL3   #1, 20(NPARSE_BLOCK), ADR                             ; 0289
                              56               5B  D0 0005F        MOVL    R11, SVD_INDEX                                        ; 0290
    00000000G  00               68             57  28 00062 5$:    MOVC3   LEN, (ADR), MOM$AB_ENTITY_BUF                         ; 0295
               00000000G  00                   57  D0 0006A        MOVL    LEN, MOM$GQ_ENTITY_BUF_DSC                            ; 0296
                              56 00000089       8F  C4 00071        MULL2   #137, R6                                             ; 0301
                         6A46                   57  90 00078        MOVB    LEN, MOM$AB_SERVICE_DATA+8[R6]                        ; 0304
              01 AA46                           57  28 0007C        MOVC3   LEN, (ADR), MOM$AB_SERVICE_DATA+9[R6]                 ; 0305
                         FF AA46                01  88 00082        BISB2   #1, MOM$AB_SERVICE_DATA+7[R6]                         ; 0312
               00000000G  00                   59  90 00087        MOVB    ENT, MOM$GB_ENTITY_CODE                               ; 0314
                              50               01  D0 0008E        MOVL    #1, R0                                                ; 0314
                                               04  00091           RET                                                          ; 0316
```

; Routine Size: 146 bytes,   Routine Base: $CODE$ + 004E

; 322   0317 1

```
324    0318  1   %SBTTL 'mom$save_param   Save NICE parameter value'
325    0319  1   GLOBAL ROUTINE mom$save_param =
326    0320
327    0321  1   !++
328    0322  1   !   FUNCTIONAL DESCRIPTION:
329    0323  1   !       This is an NPARSE action routine that is called while parsing
330    0324  1   !       a NICE message from NCP or a MOP message from the target node.
331    0325  1   !       It saves a parameter in the Service Data Table and sets a flag
332    0326  1   !       to indicate that the parameter from the volatile database is
333    0327  1   !       not to be used for this operation (since one was supplied in
334    0328  1   !       the NICE or MOP message).
335    0329  1   !
336    0330  1   !   IMPLICIT INPUTS:
337    0331  1   !       NPARSE_BLOCK (pointed to by AP) contains the parsed parameter data.
338    0332  1   !           NPA$L_FLDCNT is the parameter length.
339    0333  1   !           NPA$L_FLDPTR is a pointer to the parameter in the received
340    0334  1   !               message buffer.
341    0335  1   !       MOM$GL_SVD_INDEX contains the index into the Service Data table
342    0336  1   !           (MOM$AB_SERVICE_DATA).
343    0337  1   !
344    0338  1   !   IMPLICIT OUTPUTS:
345    0339  1   !       The parameter value or string is inserted into the Service Data Table.
346    0340  1   !
347    0341  1   !   ROUTINE VALUE:
348    0342  1   !   COMPLETION CODES:
349    0343  1   !       Always returns SS$_NORMAL.
350    0344  1   !
351    0345  1   !--
352    0346  1
353    0347  2   BEGIN
354    0348  2
355    0349  2   $npa_argdef;                                ! Define NPARSE block reference
356    0350  2
357    0351  2   LOCAL
358    0352  2       svd_index,                              ! Index into this parameter's entry in
359    0353  2                                               !     the Service Data table.
360    0354  2       msgsize,                                ! Resultant message size
361    0355  2       len,
362    0356  2       ptr;                                    ! Temporary parameter pointer
363    0357  2   !
364    0358  2   ! Add descriptor entry for this parameter.
365    0359  2   !
366    0360  2   len = .nparse_block [npa$l_fldcnt];
367    0361  2   ptr = .nparse_block [npa$l_fldptr];
368    0362  2   !
369    0363  2   ! If the NPARSE tables specified a parameter, then it is the SVD (Service
370    0364  2   ! Data table) index.  This is true only when parsing MOP messages.  When
371    0365  2   ! parsing NICE messages, the SVD index must be saved when the parameter
372    0366  2   ! ID is parsed; this routine is not called until parsing reaches the
373    0367  2   ! parameter value.
374    0368  2   !
375    0369  2   IF .nparse_block [npa$l_param] NEQ 0 THEN
376    0370  2       svd_index = .nparse_block [npa$l_param]
377    0371  2   ELSE
378    0372  2       svd_index = .mom$gl_svd_index;
379    0373  2   !
380    0374  2   ! Save the parameter in the Service Data Table.
```

E 7

MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 13
V04-000   mom$save_param   Save NICE parameter value   14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1   (7)

```
 381    0375  2 !
 382    0376  2 IF .mom$ab_service_data [.svd_index, svd$b_nice_type]
 383    0377  2                                        EQL svd$k_string THEN
 384    0378  3     BEGIN
 385    0379  3     len = .len - 1;
 386    0380  3     CH$MOVE (.len, (.ptr + 1), mom$ab_service_data [.svd_index, svd$t_string]);
 387    0381  3     mom$ab_service_data [.svd_index, svd$b_string_len] = .len;
 388    0382  3     mom$ab_service_data [.svd_index, svd$v_msg_param] = true;
 389    0383  3     END
 390    0384  2 ELSE
 391    0385  3     BEGIN
 392    0386  3     !
 393    0387  3     ! Save the parameter value.
 394    0388  3     !
 395    0389  3     CH$COPY (.len,
 396    0390  3                 .ptr,
 397    0391  3                 0,
 398    0392  3                 4,
 399    0393  3                 mom$ab_service_data [.svd_index, svd$l_param]);
 400    0394  3     mom$ab_service_data [.svd_index, svd$v_msg_param] = true;
 401    0395  3     END;
 402    0396  2 !
 403    0397  2 ! Clear SVD index because the parsing routines think they are simply
 404    0398  2 ! setting a bit when they put the index into this variable.
 405    0399  2 !
 406    0400  2 mom$gl_svd_index = 0;
 407    0401
 408    0402  2 RETURN ss$_normal
 409    0403  2
 410    0404  1 END;                                       ! End of MOM$SAVE_PARAM
```

```
                              07FC 00000              .ENTRY   MOM$SAVE_PARAM, Save R2,R3,R4,R5,R6,R7,R8,- ; 0319
                                                               R9,R10
               5A 00000000G  00  9E 00002              MOVAB    MOM$GL_SVD_INDEX, R10
               59 00000000G  00  9E 00009              MOVAB    MOM$AB_SERVICE_DATA+9, R9
               58        10  AC  D0 00010              MOVL     16(NPARSE_BLOCK), LEN                       : 0360
               51        14  AC  D0 00014              MOVL     20(NPARSE_BLOCK), PTR                       : 0361
                         20  AC  D5 00018              TSTL     32(NPARSE_BLOCK)                            : 0369
                         06  13 0001B              BEQL     1$
               50        20  AC  D0 0001D              MOVL     32(NPARSE_BLOCK), SVD_INDEX                : 0370
                         03  11 00021              BRB      2$
               50            6A  D0 00023 1$:         MOVL     MOM$GL_SVD_INDEX, SVD_INDEX                : 0372
       56      50 00000089  8F  C5 00026 2$:         MULL3    #137, SVD_INDEX, R6                          : 0376
       50          56       59  C1 0002E              ADDL3    R9, R6, R0                                  : 0380
               57      FE A946  9E 00032              MOVAB    MOM$AB_SERVICE_DATA+7[R6], R7               : 0382
               03      FD A946  91 00037              CMPB     MOM$AB_SERVICE_DATA+6[R6], #3               : 0377
                         0E  12 0003C              BNEQ     3$
                         58  D7 0003E              DECL     LEN                                         : 0379
       60          01  A1     58  28 00040              MOVC3    LEN, 1(PTR), (R0)                          : 0380
                     FF A946  58  90 00045              MOVB     LEN, MOM$AB_SERVICE_DATA+8[R6]             : 0381
                         06  11 0004A              BRB      4$                                         : 0382
   04      00          61     58  2C 0004C 3$:         MOVC5    LEN, (PTR), #0, #4, (R0)                    : 0393
                             60  00051
```

MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 14
V04-000   mom$save_param Save NICE parameter value   14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1   (7)

```
                        67              01 88 00052 4$:       BISB2     #1, (R7)                                        ; 0394
                                        6A D4 00055           CLRL      MOM$GL_SVD_INDEX                                ; 0400
                        50              01 D0 00057           MOVL      #1, R0                                          ; 0402
                                        04 0005A              RET                                                       ; 0404
```

; Routine Size: 91 bytes,   Routine Base: $CODE$ + 00E0

```
                                                       G 7
MOMPARSE        Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742        Page  15
V04-000         mom$save_node_id Save node id                    14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1  (8)
```

```
   412   0405  1  %SBTTL 'mom$save_node_id        Save node id'
   413   0406  1  GLOBAL ROUTINE mom$save_node_id =
   414   0407  1
   415   0408  1  !++
   416   0409  1  ! FUNCTIONAL DESCRIPTION:
   417   0410  1  !     This is an NPARSE action that saves a node id passed in
   418   0411  1  !     a LOAD, TRIGGER, or LOOP command.
   419   0412  1  !
   420   0413  1  ! IMPLICIT INPUTS:
   421   0414  1  !     NPARSE_BLOCK [NPA$L_FLDPTR] contains the pointer to the entity
   422   0415  1  !         format code and id string.
   423   0416  1  !
   424   0417  1  ! ROUTINE VALUE:
   425   0418  1  ! COMPLETION CODES:
   426   0419  1  !     Always returns success (SS$_NORMAL).
   427   0420  1  !
   428   0421  1  !--
   429   0422  1
   430   0423  2  BEGIN
   431   0424  2
   432   0425  2  $npa_argdef;                          ! Define NPARSE block reference
   433   0426  2
   434   0427  2  LOCAL
   435   0428  2      node_addr_svd,
   436   0429  2      node_name_svd,
   437   0430  2      length,
   438   0431  2      addr;
   439   0432  2  !
   440   0433  2  ! The LOAD HOST parameter is a word rather than a node id (for which
   441   0434  2  ! the node address is preceded by a byte of 0).
   442   0435  2  !
   443   0436  2  IF .nparse_block [npa$l_param] EQL mom$c_node_addr_param THEN
   444   0437  3      BEGIN
   445   0438  3      length = 0;
   446   0439  3      addr = .nparse_block [npa$l_fldptr];
   447   0440  3      END
   448   0441  2  ELSE
   449   0442  3      BEGIN
   450   0443  3      !
   451   0444  3      ! Get length and address of node id string.
   452   0445  3      !
   453   0446  3      length = .(.nparse_block [npa$l_fldptr])<0,8>; ! Get length
   454   0447  3      addr = .nparse_block [npa$l_fldptr] + 1;
   455   0448  3      END;
   456   0449  2  SELECTONEU .mom$gl_svd_index OF
   457   0450  2      SET
   458   0451  3      [svd$gk_pcno_iho]:
   459   0452  3          BEGIN
   460   0453  3          node_addr_svd = svd$gk_pcno_iho;
   461   0454  3          node_name_svd = svd$gk_pcno_$hna;
   462   0455  3          END;
   463   0456  2      [svd$gk_pcno_lpn]:
   464   0457  3          BEGIN
   465   0458  3          node_addr_svd = svd$gk_pcno_lpn;
   466   0459  3          node_name_svd = svd$gk_pcno_$lna;
   467   0460  3          END;
   468   0461  2      [svd$gk_pcno_lan]:
```

```
469    0462   3           BEGIN
470    0463   3           node_addr_svd = svd$gk_pcno_lan;
471    0464   3           node_name_svd = svd$gk_pcno_$lnn;
472    0465   3           END;
473    0466   2        TES;
474    0467   2    !
475    0468   2    ! If length is zero then id is a node address, otherwise it is a
476    0469   2    ! node name string.
477    0470   2    !
478    0471   2    IF .length EQL 0 THEN
479    0472   2        !
480    0473   2        ! Save the node address.
481    0474   2        !
482    0475   3        BEGIN
483    0476   3        BIND
484    0477   3           node_addr = mom$ab_service_data [.node_addr_svd, svd$l_param] :
485    0478   3                 BBLOCK;
486    0479   3        mom$ab_service_data [.node_addr_svd, svd$l_param] = .(.addr)<0,16>;
487    0480   3        mom$ab_service_data [.node_addr_svd, svd$v_msg_param] = true;
488    0481   3        !
489    0482   3        ! If the node area is 0 and it's not a Phase III (or less) NCP,
490    0483   3        ! change to area 1.
491    0484   3        !
492    0485   3        mom_fix_node_num (node_addr);
493    0486   3        END
494    0487   2    ELSE
495    0488   2        !
496    0489   2        ! If it's a node name, save it and get the node address from the
497    0490   2        ! volatile database.
498    0491   2        !
499    0492   3        BEGIN
500    0493   3        mom$ab_service_data [.node_name_svd, svd$b_string_len] = .length;
501    0494   3        CH$MOVE (.length, .addr,
502    0495   3                 mom$ab_service_data [.node_name_svd, svd$t_string]);
503    0496   3        mom$ab_service_data [.node_name_svd, svd$v_msg_param] = true;
504    0497   3        END;
505    0498   2
506    0499   2    mom$gl_svd_index = 0;                        ! Reset parameter code
507    0500   2
508    0501   2    RETURN ss$_normal
509    0502   2
510    0503   1 END;                                        ! End of mom$save_node_id
```

```
                            0FFC 00000           .ENTRY    MOM$SAVE_NODE_ID, Save R2,R3,R4,R5,R6,R7,-   ; 0406
                                                           R8,R9,R10,R11
         5B 00000000G  00  9E 00002           MOVAB     MOM$GL_SVD_INDEX, R11
         5A 00000000G  8F  D0 00009           MOVL      #SVD$GK_PCNO_LAN, R10
         59 00000000G  8F  D0 00010           MOVL      #SVD$GK_PCNO_LPN, R9
         58 00000000G  8F  D0 00017           MOVL      #SVD$GK_PCNO_IHO, R8
         57 00000000G  00  9E 0001E           MOVAB     MOM$AB_SERVICE_DATA+9, R7
         01        20  AC  D1 00025           CMPL      32(NPARSE_BLOCK), #1                          ; 0436
                   08  12 00029               BNEQ      1$
                   52  D4 0002B               CLRL      LENGTH                                        ; 0438
```

```
                        53      14      AC  D0 0002D          MOVL    20(NPARSE_BLOCK), ADDR                            ; 0439
                                        09  11 00031          BRB     2$                                               ; 0436
                        52      14      BC  9A 00033 1$:       MOVZBL  @20(NPARSE_BLOCK), LENGTH                        ; 0446
             53      14 AC              01  C1 00037          ADDL3   #1, 20(NPARSE_BLOCK), ADDR                       ; 0447
                        50              6B  D0 0003C 2$:       MOVL    MOM$GL_SVD_INDEX, R0                              ; 0449
                        58              50  D1 0003F          CMPL    R0, R8                                            ; 0451
                                        0C  12 00042          BNEQ    3$
                        51              58  D0 00044          MOVL    R8, NODE_ADDR_SVD                                 ; 0453
                        50 00000000G    8F  D0 00047          MOVL    #SVD$GK_PCNO_$HNA, NODE_NAME_SVD                 ; 0454
                                        20  11 0004E          BRB     5$                                               ; 0449
                        59              50  D1 00050 3$:       CMPL    R0, R9                                            ; 0456
                                        0C  12 00053          BNEQ    4$
                        51              59  D0 00055          MOVL    R9, NODE_ADDR_SVD                                 ; 0458
                        50 00000000G    8F  D0 00058          MOVL    #SVD$GK_PCNO_$LNA, NODE_NAME_SVD                 ; 0459
                                        0F  11 0005F          BRB     5$                                               ; 0449
                        5A              50  D1 00061 4$:       CMPL    R0, R10                                           ; 0461
                                        0A  12 00064          BNEQ    5$
                        51              5A  D0 00066          MOVL    R10, NODE_ADDR_SVD                                ; 0463
                        50 00000000G    8F  D0 00069          MOVL    #SVD$GK_PCNO_$LNN, NODE_NAME_SVD                 ; 0464
                                        52  D5 00070 5$:       TSTL    LENGTH                                            ; 0471
                                        1E  12 00072          BNEQ    6$
                        51 00000089     8F  C4 00074          MULL2   #137, R1                                          ; 0477
             50         51              57  C1 0007B          ADDL3   R7, R1, R0
                        60              63  3C 0007F          MOVZWL  (ADDR), (R0)                                     ; 0479
                    FE A741             01  88 00082          BISB2   #1, MOM$AB_SERVICE_DATA+7[R1]                    ; 0480
                                        50  DD 00087          PUSHL   R0                                               ; 0485
             00000000V 00               01  FB 00089          CALLS   #1, MOM_FIX_NODE_NUM
                                        17  11 00090          BRB     7$                                               ; 0471
             56         50 00000089     8F  C5 00092 6$:       MULL3   #137, NODE_NAME_SVD, R6                          ; 0493
                    FF A746             52  90 0009A          MOVB    LENGTH, MOM$AB_SERVICE_DATA+8[R6]
           6746         63              52  28 0009F          MOVC3   LENGTH, (ADDR), MOM$AB_SERVICE_DATA+9[R6]        ; 0495
                    FE A746             01  88 000A4          BISB2   #1, MOM$AB_SERVICE_DATA+7[R6]                    ; 0496
                                        6B  D4 000A9 7$:       CLRL    MOM$GL_SVD_INDEX                                  ; 0499
                        50              01  D0 000AB          MOVL    #1, R0                                            ; 0501
                                        04 000AE              RET                                                      ; 0503
```

; Routine Size: 175 bytes,   Routine Base: $CODE$ + 013B

MOMPARSE
V04-000

Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 18
mom$check_node_entity Verify a node request   14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (9)

```
 512   0504  1  %SBTTL  'mom$check_node_entity            Verify a node request'
 513   0505  1  GLOBAL ROUTINE  mom$check_node_entity =
 514   0506  1  !++
 515   0507  1  ! FUNCTIONAL DESCRIPTION:
 516   0508  1  !
 517   0509  1  !       This is an NPARSE action routine that verifies the requested
 518   0510  1  !       service request (LOAD/TRIGGER/DUMP) is a node request and
 519   0511  1  !       not a circuit request.  The routine is called whenever a
 520   0512  1  !       service request containing a service circuit is received.
 521   0513  1  !
 522   0514  1  ! IMPLICIT INPUTS:
 523   0515  1  !       NPARSE_BLOCK (pointed to by AP) contains the parsed parameter
 524   0516  1  !       data.
 525   0517  1  !
 526   0518  1  !       MOM$GB_ENTITY_CODE contains the entity code which indicates if a
 527   0519  1  !               circuit or node request.
 528   0520  1  !
 529   0521  1  ! ROUTINE VALUE:
 530   0522  1  ! COMPLETION CODE:
 531   0523  1  !       If request is a node request SUCCESS is returned.
 532   0524  1  !       Otherwise a parameter not applicable error (NMA$C_STS_PNA) will
 533   0525  1  !       be signalled.
 534   0526  1  !
 535   0527  1  ! SIDE EFFECTS:
 536   0528  1  !       If error then message is signalled.
 537   0529  1  !
 538   0530  1  !--
 539   0531  2  BEGIN
 540   0532  2
 541   0533  2  $npa_argdef;                        ! Define NPARSE block reference
 542   0534  2
 543   0535  2  ! Verify that request is not a circuit request (node request).
 544   0536  2  ! Signal errror if circuit request.
 545   0537  2
 546   0538  2  IF .mom$gb_entity_code NEQ mom$c_node AND
 547   0539  2      .mom$gb_entity_code NEQ mom$c_nodebyname THEN
 548   0540  2       mom$error (nma$c_sts_pna,
 549   0541  2                  .(.nparse_block [npa$l_fldptr])<0,16>);
 550   0542  2
 551   0543  2  RETURN success
 552   0544  1  END;                                ! End MOM$CHECK_NODE_ENTITY  routine
```

```
                            0000 00000              .ENTRY   MOM$CHECK_NODE_ENTITY, Save nothing    ; 0505
           50 00000000G 00  9A 00002              MOVZBL   MOM$GB_ENTITY_CODE, R0                 ; 0538
                        13  13 00009              BEQL     1$
                    01  50  91 0000B              CMPB     R0, #1                                 ; 0539
                        0E  13 0000E              BEQL     1$
                7E     14  BC 3C 00010            MOVZWL   @20(NPARSE_BLOCK), -(SP)               ; 0541
                7E         16 CE 00014            MNEGL    #22, -(SP)                             ; 0540
     00000000G 00         02 FB 00017            CALLS    #2, MOM$ERROR
                    50         01 D0 0001E 1$:    MOVL     #1, R0                                 ; 0543
                            04 00021              RET                                            ; 0544
```

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MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 19
V04-000   mom$check_node_entity Verify a node request   14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1   (9)

; Routine Size: 34 bytes,   Routine Base: $CODE$ + 01EA

MOMPARSE
V04-000

L 7

Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 20
mom$check_loop_params Verify LOOP CIRCUIT para 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (10)

```
  554   0545  1  %SBTTL  'mom$check_loop_params              Verify LOOP CIRCUIT parameters'
  555   0546  1  GLOBAL ROUTINE  mom$check_loop_params =
  556   0547  1  !++
  557   0548  1  !  FUNCTIONAL DESCRIPTION:
  558   0549  1  !
  559   0550  1  !       This is an NPARSE action routine that verifies the requested
  560   0551  1  !       LOOP CIRCUIT command does not contain contradictory or missing
  561   0552  1  !       parameters.
  562   0553  1  !
  563   0554  1  !  IMPLICIT INPUTS:
  564   0555  1  !       NPARSE_BLOCK (pointed to by AP) contains the parsed parameter
  565   0556  1  !       data.
  566   0557  1  !       The Service Data table (SVD)
  567   0558  1  !
  568   0559  1  !  ROUTINE VALUE:
  569   0560  1  !  COMPLETION CODE:
  570   0561  1  !       If request OK, SUCCESS is returned.
  571   0562  1  !       Otherwise a parameter missing error (NMA$C_STS_PMS) will
  572   0563  1  !       be signalled.
  573   0564  1  !
  574   0565  1  !  SIDE EFFECTS:
  575   0566  1  !       If error then message is signalled.
  576   0567  1  !
  577   0568  1  !--
  578   0569  2  BEGIN
  579   0570  2
  580   0571  2  $npa_argdef;                        ! Define NPARSE block reference
  581   0572  2
  582   0573  2  ! If the LOOP CIRCUIT command specifies loop with assist and/or help type,
  583   0574  2  ! it must be an Ethernet circuit, and therefore a PHYSICAL ADDRESS or NODE
  584   0575  2  ! parameter must be specified.
  585   0576  2
  586   0577  3  IF (.mom$gl_service_flags [mom$v_loop_w_assist] OR
  587   0578  3      .mom$ab_service_data [svd$gk_pcno_lph, svd$v_msg_param]) AND
  588   0579  3     NOT (.mom$ab_service_data [svd$gk_pcno_pha, svd$v_msg_param] OR
  589   0580  3          .mom$ab_service_data [svd$gk_pcno_lan, svd$v_msg_param] OR
  590   0581  2          .mom$ab_service_data [svd$gk_pcno_$lna, svd$v_msg_param]) THEN
  591   0582  2      mom$error (nma$c_sts_pms,
  592   0583  2                 nma$c_pcno_pha);
  593   0584  2  !
  594   0585  2  ! If the LOOP CIRCUIT command specifies LOOP HELP but no ASSISTANT
  595   0586  2  ! PHYSICAL ADDRESS or NODE, return an error.
  596   0587  2  !
  597   0588  2  IF .mom$ab_service_data [svd$gk_pcno_lph, svd$v_msg_param] AND
  598   0589  2     NOT .mom$gl_service_flags [mom$v_loop_w_assist] THEN
  599   0590  2      mom$error (nma$c_sts_pms,
  600   0591  2                 nma$c_pcno_lpa);
  601   0592  2
  602   0593  2  RETURN success
  603   0594  1  END;                                ! End MOM$CHECK_LOOP_PARAMS routine
```

```
                            000C 00000              .ENTRY  MOM$CHECK LOOP_PARAMS, Save R2,R3    ; 0546
                53 00000000G 00  9E 00002           MOVAB   MOM$GL_SERVICE_FLAGS, R3             ;
```

MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 21
V04-000   mom$check_loop_params Verify LOOP CIRCUIT para 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (10)

```
              52 00000000G  00  9E 00009          MOVAB    MOM$ERROR, R2
       07      63           03  E0 00010          BBS      #3, MOM$GL_SERVICE_FLAGS, 1$          :  0577
              32 00000000*  00  E9 00014          BLBC     <<MOM$AB_SERVICE_DATA+<SVD$GK_PCNO_LPH*137>-;  0578
                                                           >+7>, 3$
              16 00000000*  00  E8 0001B 1$:      BLBS     <<MOM$AB_SERVICE_DATA+<SVD$GK_PCNO_PHA*137>-;  0579
                                                           >+7>, 2$
              0F 00000000*  00  E8 00022          BLBS     <<MOM$AB_SERVICE_DATA+<SVD$GK_PCNO_LAN*137>-;  0580
                                                           >+7>, 2$
              08 00000000*  00  E8 00029          BLBS     <<MOM$AB_SERVICE_DATA+<SVD$GK_PCNO_$LNA*-  :  0581
                                                           137>>+7>, 2$
                            0A  DD 00030          PUSHL    #10                                  :  0582
               7E           1D  CE 00032          MNEGL    #29, -(SP)
               62           02  FB 00035          CALLS    #2, MOM$ERROR
              0E 00000000*  00  E9 00038 2$:      BLBC     <<MOM$AB_SERVICE_DATA+<SVD$GK_PCNO_LPH*137>-;  0588
                                                           >+7>, 3$
       0A      63           03  E0 0003F          BBS      #3, MOM$GL_SERVICE_FLAGS, 3$          :  0589
               7E        99 8F  9A 00043          MOVZBL   #153, -(SP)                          :  0590
               7E           1D  CE 00047          MNEGL    #29, -(SP)
               62           02  FB 0004A          CALLS    #2, MOM$ERROR
               50           01  D0 0004D 3$:      MOVL     #1, R0                               :  0593
                            04 00050              RET                                           :  0594
```

; Routine Size: 81 bytes,   Routine Base: $CODE$ + 020C

N 7

MOMPARSE　　　　Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08　　VAX-11 Bliss-32 V4.0-742　　　　　　Page 22
V04-000　　　　　mom$save_mop_msg Save MOP message received fro 14-Sep-1984 12:44:36　　DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (11)

```
605    0595  1 %SBTTL  'mom$save_mop_msg                    Save MOP message received from target'
606    0596  1 GLOBAL ROUTINE  mom$save_mop_msg =
607    0597  1 !++
608    0598  1 ! FUNCTIONAL DESCRIPTION:
609    0599  1 !
610    0600  1 !        This is an NPARSE action routine that is called when certain
611    0601  1 !        MOP messages are received from the target node.  These messages
612    0602  1 !        must be saved because, if the target does not receive a response
613    0603  1 !        within a certain time, the target retransmits them.  Therefore,
614    0604  1 !        MOM must be prepared to skip over retransmissions of the same
615    0605  1 !        message.  So, save the message here to do the comparison for
616    0606  1 !        retransmissions against.
617    0607  1 !
618    0608  1 ! IMPLICIT INPUTS:
619    0609  1 !        NPARSE_BLOCK (pointed to by AP) contains the parsed parameter
620    0610  1 !        data.
621    0611  1 !
622    0612  1 ! ROUTINE VALUE:
623    0613  1 ! COMPLETION CODE:
624    0614  1 !
625    0615  1 ! SIDE EFFECTS:
626    0616  1 !        The MOP message and a descriptor of it are saved in MOM$AB_MOP_MSG
627    0617  1 !        and MOM$GQ_MOP_MSG_DSC respectively.
628    0618  1 !
629    0619  1 !--
630    0620  2 BEGIN
-1     0621  2
632    0622  2 $npa_argdef;                              ! Define NPARSE block reference
633    0623  2
634    0624  2 mom$gq_mop_msg_dsc [0] = .mom$ab_nparse_blk [npa$l_msgcnt];
635    0625  2 mom$gq_mop_msg_dsc [1] = mom$ab_mop_msg;
636    0626  2 CH$MOVE (.mom$ab_nparse_blk [npa$l_msgcnt],
637    0627  2         .mom$ab_nparse_blk [npa$l_msgptr],
638    0628  2         mom$ab_mop_msg);
639    0629  2 RETURN success
640    0630  1 END;                                      ! End mom$save_mop_msg  routine
```

```
                                          007C 00000    .ENTRY   MOM$SAVE_MOP_MSG, Save R2,R3,R4,R5,R6    ; 0596
                          56 00000000G  00  9E 00002    MOVAB    MOM$AB_MOP_MSG, R6
                          51 00000000G  00  D0 00009    MOVL     MOM$AB_NPARSE_BLK+4, R1                  ; 0624
                 00000000G  00           51  D0 00010    MOVL     R1, MOM$GQ_MOP_MSG_DSC
                 00000000G  00           66  9E 00017    MOVAB    MOM$AB_MOP_MSG, MOM$GQ_MOP_MSG_DSC+4     ; 0625
                          50 00000000G  00  D0 0001E    MOVL     MOM$AB_NPARSE_BLK+8, R0                  ; 0627
                 66       60           51  28 00025    MOVC3    R1, (R0), MOM$AB_MOP_MSG                 ; 0626
                          50           01  D0 00029    MOVL     #1, R0                                  ; 0629
                                          04 0002C    RET                                             ; 0630

; Routine Size:  45 bytes,    Routine Base:  $CODE$ + 025D
```

```
                                                     B  8
MOMPARSE        Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742        Page  23
V04-000         mom$mop_chk_loop_assist Check for MOP loop ass' 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (12)
```

```
642   0631   1  %SBTTL  'mom$mop_chk_loop_assist          Check for MOP loop assist request'
643   0632   1  GLOBAL ROUTINE  mom$mop_chk_loop_assist =
644   0633   1  !++
645   0634   1  ! FUNCTIONAL DESCRIPTION:
646   0635   1  !
647   0636   1  !         This is an NPARSE action routine that is called during autoservice
648   0637   1  !         if a MOP messages is received which doesn't contain any of the
649   0638   1  !         recognized MOP function codes.  In this case, it could be a
650   0639   1  !         multicast request for loopback assistance on the Ethernet.  Check to
651   0640   1  !         make sure the message was sent to the cross company Loopback Assistance
652   0641   1  !         multicast address.  If so, return success so the volunteer assistance
653   0642   1  !         will be sent.
654   0643   1  !
655   0644   1  ! IMPLICIT INPUTS:
656   0645   1  !         NPARSE_BLOCK (pointed to by AP) contains the parsed parameter
657   0646   1  !         data.
658   0647   1  !
659   0648   1  ! ROUTINE VALUE:
660   0649   1  ! COMPLETION CODE:
661   0650   1  !         Returns MOM$_SUC if the system sending the MOP message sent it
662   0651   1  !         to the NI multicast loopback assistance address.
663   0652   1  !
664   0653   1  !--
665   0654   2  BEGIN
666   0655   2
667   0656   2  LOCAL
668   0657   2      status;
669   0658   2
670   0659   2  BIND
671   0660   2      NI_loop_assis_mult = UPLIT (%X'000000CF', WORD (%X'0000'));
672   0661   2
673   0662   2  !
674   0663   2  ! Check to make sure the MOP message was sent to the multicast loopback
675   0664   2  ! assist address.  The destination address of the message was saved
676   0665   2  !
677   0666   2  status = mom$_badmopfct;
678   0667   2  IF .mom$gl_service_flags [mom$v_ni_circ] THEN
679   0668   3      BEGIN
680   0669   3      IF CH$EQL (mom$k_ni_addr_length, ni_loop_assis_mult,
681   0670   3          mom$k_ni_addr_length,
682   0671   3              mom$ab_service_data [svd$gk_pcno_$da, svd$t_string]) THEN
683   0672   3      status = success;
684   0673   2      END;
685   0674   2  RETURN .status;
686   0675   1  END;                                 ! End mom$mop_chk_loop_assist routine


                                                .PSECT   $PLIT$,NOWRT,NOEXE,2

                              000000CF  00000 P.AAA:  .LONG    207
                                  0000  00004         .WORD    0

                                                NI_LOOP_ASSIS_MULT= P.AAA

                                                .PSECT   $CODE$,NOWRT,2
```

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MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 24
V04-000   mom$mop_chk_loop_assist Check for MOP loop assi 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1   (12)

```
                                          001C 00000          .ENTRY   MOM$MOP_CHK_LOOP_ASSIST, Save R2,R3,R4          ; 0632
                              54 00000000G 8F DO 00002         MOVL     #MOM$_BADMOPFCT, STATUS                         ; 0666
                    11 00000000G 00         01 E1 00009        BBC      #1, MOM$GL_SERVICE_FLAGS, 1$                    ; 0667
        00000000* 00 00000000' 00           06 29 00011        CMPC3    #6, NI_LOOP_ASSIS_MULT, <-                      ; 0671
                                                                        <MOM$AB_SERVICE_DATA+<SVD$GK_PCNO_$DA*137>>-
                                                                        +9>
                                          03 12 0001D          BNEQ     1$
                              54          01 DO 0001F          MOVL     #1, STATUS                                      ; 0672
                              50          54 DO 00022 1$:      MOVL     STATUS, R0                                      ; 0674
                                          04 00025             RET                                                     ; 0675
```

; Routine Size: 38 bytes,   Routine Base: $CODE$ + 028A

```
688    0676   1 %SBTTL  'mom$save_load_file_id    Save load file specification'
689    0677   1 GLOBAL ROUTINE  mom$save_load_file_id =
690    0678   1 !++
691    0679   1 ! FUNCTIONAL DESCRIPTION:
692    0680   1 !
693    0681   1 !        This is an NPARSE action routine MOM calls if it receives a
694    0682   1 !        MOP program load request which contains string in the software
695    0683   1 !        id field of the message.  Append the logical name MOM$LOAD
696    0684   1 !        to the string.  It will be translated by RMS when the load
697    0685   1 !        file is opened.  The logical name is used as security to make
698    0686   1 !        sure that only files in one directory can be loaded.
699    0687   1 !
700    0688   1 !
701    0689   1 ! IMPLICIT INPUTS:
702    0690   1 !        NPARSE_BLOCK (pointed to by AP) contains the parsed parameter
703    0691   1 !        data.
704    0692   1 !
705    0693   1 ! ROUTINE VALUE:
706    0694   1 ! COMPLETION CODE:
707    0695   1 !
708    0696   1 !--
709    0697   2 BEGIN
710    0698   2 $npa_argdef;                                ! Define NPARSE block reference
711    0699   2
712    0700   2 LOCAL
713    0701   2     file_svd,
714    0702   2     len,
715    0703   2     MOP_ptr,
716    0704   2     svd_ptr;
717    0705   2
718    0706   2 !
719    0707   2 ! The software type field precedes the software ID in the MOP message.
720    0708   2 ! This field determines which load file (secondary, tertiary, or operating
721    0709   2 ! system) to load.  Put the load file id in the correct load file entry
722    0710   2 ! of the Service Data Table (SVD).
723    0711   2 !
724    0712   2 file_svd =
725    0713   3     (SELECTONEU .mom$ab_service_data [svd$gk_pcno_sty, svd$l_param] OF
726    0714   3         SET
727    0715   3         [nma$c_soft_terl]: svd$gk_pcno_tlo;    ! Tertiary loader
728    0716   3         [nma$c_soft_osys]: svd$gk_pcno_loa;    ! Operating system
729    0717   3         [OTHERWISE]: svd$gk_pcno_slo;          ! Secondary loader
730    0718   2         TES);
731    0719   2 !
732    0720   2 ! Concatenate the logical name, MOM$LOAD, with the file specification
733    0721   2 ! in the software ID field of the MOP message.
734    0722   2 !
735    0723   2 len = %CHARCOUNT ('MOM$LOAD:');
736    0724   2 svd_ptr = mom$ab_service_data [.file_svd, svd$t_string];
737    0725   2 svd_ptr = CH$MOVE (.len, UPLIT BYTE ('MOM$LOAD:'), .svd_ptr);
738    0726   2 !
739    0727   2 ! Save the software id in the Service Data Table.
740    0728   2 !
741    0729   2 len = .len + .nparse_block [npa$l_fldcnt] - 1;
742    0730   2 MOP_ptr = .nparse_block [npa$l_fldptr];
743    0731   2 CH$MOVE (.len, (.MOP_ptr + 1), .svd_ptr);
744    0732   2 mom$ab_service_data [.file_svd, svd$b_string_len] = .len;
```

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MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 26
V04-000   mom$save_load_file_id   Save load file specific 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (13)

```
; 745    0733 2 mom$ab_service_data [.file_svd, svd$v_msg_param] = true;
; 746    0734 2
; 747    0735 2 RETURN success;
; 748    0736 1 END;                                      ! End mom$save_load_file_id routine


                                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

              3A 44 41 4F 4C 24 4D 4F 4D 00006 P.AAB:   .ASCII  \MOM$LOAD:\                                        ;


                                                        .PSECT  $CODE$,NOWRT,2

                                 01FC 00000             .ENTRY  MOM$SAVE_LOAD_FILE_ID, Save R2,R3,R4,R5,R6,-; 0677
                                                                R7,R8
                   58 00000000G  00  9E 00002           MOVAB   MOM$AB_SERVICE_DATA+9, R8
                   50 00000000*  00  D0 00009           MOVL    <<MOM$AB_SERVICE_DATA+<SVD$GK_PCNO_STY*137>-; 0713
                                                                >+9>, R0
                   01            50  D1 00010            CMPL    R0, #1                                      ; 0715
                                 09  12 00013            BNEQ    1$
                   50 00000000G  8F  D0 00015            MOVL    #SVD$GK_PCNO_TLO, FILE_SVD
                                 15  11 0001C            BRB     3$
                   02            50  D1 0001E 1$:        CMPL    R0, #2                                      ; 0716
                                 09  12 00021            BNEQ    2$
                   50 00000000G  8F  D0 00023            MOVL    #SVD$GK_PCNO_LOA, FILE_SVD
                                 07  11 0002A            BRB     3$
                   50 00000000G  8F  D0 0002C 2$:        MOVL    #SVD$GK_PCNO_SLO, FILE_SVD                   ; 0717
                   56            09  D0 00033 3$:        MOVL    #9, LEN                                      ; 0723
        57         50 00000089  8F  C5 00036            MULL3   #137, FILE_SVD, R7                           ; 0724
        53         57           58  C1 0003E            ADDL3   R8, R7, SVD_PTR
        63 00000000'  00        56  28 00042            MOVC3   LEN, P.AAB, (SVD_PTR)                        ; 0725
        50           56      10  AC  C1 0004A            ADDL3   16(NPARSE_BLOCK), LEN, R0                   ; 0729
                     56      FF  A0  9E 0004F            MOVAB   -1(R0), LEN
                     50      14  AC  D0 00053            MOVL    20(NPARSE_BLOCK), MOP_PTR                    ; 0730
        63      01  A0        56  28 00057            MOVC3   LEN, 1(MOP_PTR), (SVD_PTR)                   ; 0731
             FF A847          56  90 0005C            MOVB    LEN, MOM$AB_SERVICE_DATA+8[R7]              ; 0732
             FE A847          01  88 00061            BISB2   #1, MOM$AB_SERVICE_DATA+7[R7]               ; 0733
             50               01  D0 00066            MOVL    #1, R0                                       ; 0735
                                 04 00069            RET                                                  ; 0736

; Routine Size: 106 bytes,    Routine Base:  $CODE$ + 02B0
```

MOMPARSE   F 8
V04-000   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 27
           MOM_FIX_NODE_NUM   Fix node address parameter 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (14)

```
750  0737  1  %SBTTL 'MOM_FIX_NODE_NUM    Fix node address parameter (action routine)'
751  0738  1  ROUTINE MOM_FIX_NODE_NUM (NODE_ADDR) : NOVALUE =
752  0739  1
753  0740  1  !++
754  0741  1  ! FUNCTIONAL DESCRIPTION:
755  0742  1  !
756  0743  1  !        This is an parsing action routine that checks the node address.  If
757  0744  1  !        the area number is 0 it can be one of two cases:
758  0745  1  !                The NCP is a Phase IV NCP, and user did not specify an area
759  0746  1  !                number in the NCP command.  In this case, assume the user
760  0747  1  !                means area 1 (since 0 is an invalid area number).
761  0748  1  !
762  0749  1  !                the NCP is a Phase III NCP and therefore doesn't understand
763  0750  1  !                area numbers.  In this case, assume the user means the
764  0751  1  !                executor node's area.
765  0752  1  !
766  0753  1  ! FORMAL PARAMETERS:
767  0754  1  !        NODE_ADDR          Address of Node address to fix.
768  0755  1  !
769  0756  1  ! IMPLICIT INPUTS:
770  0757  1  !        None
771  0758  1  !
772  0759  1  ! IMPLICIT OUTPUTS:
773  0760  1  !        None
774  0761  1  !
775  0762  1  !--
776  0763  1
777  0764  2  BEGIN
778  0765  2
779  0766  2  MAP
780  0767  2      node_addr   : REF BBLOCK [2];
781  0768  2
782  0769  2  LOCAL
783  0770  2      exec_addr   : BBLOCK [2];
784  0771  2
785  0772  2  !
786  0773  2  ! If the node address is 0, then it's the executor, so leave it that way.
787  0774  2  ! If the area number of the address is 0, then change it.
788  0775  2  !
789  0776  2  IF .node_addr [nma$v_addr] NEQ 0 AND
790  0777  2     .node_addr [nma$v_area] EQL 0 THEN
791  0778  3      BEGIN
792  0779  3
793  0780  3      ! If NCP is a Phase III NCP, use area 0 for the volatile database.
794  0781  3      ! NETACP will assume the executor's area number.  For permanent database,
795  0782  3      ! get the exec address from the permanent database and use it's area number.
796  0783  3
797  0784  3      IF CH$RCHAR (mom$ab_ncp_version) LEQ 3 then
798  0785  3          node_addr [nma$v_area] = 0
799  0786  3      ELSE
800  0787  3
801  0788  3      ! If NCP is a Phase IV NCP, use area 1.
802  0789  3      !
803  0790  3          node_addr [nma$v_area] = 1;
804  0791  2      END;
805  0792  2  RETURN
806  0793  2
```

```
; 807          0794 1 END;                                    ! End of MOM_FIX_NODE_NUM


                         0000 00000 MOM_FIX_NODE_NUM:
                                                            .WORD    Save nothing                    ; 0738
                    50      04  AC  D0 00002                 MOVL     NODE_ADDR, R0                   ; 0776
           03FF  8F         60  B3 00006                     BITW     (R0), #1023
                           1B  13 0000B                      BEQL     2$
              FC  8F    01  A0  93 0000D                      BITB     1(R0), #252                    ; 0777
                           14  12 00012                      BNEQ     2$
                  03 00000000G  00  91 00014                 CMPB     MOM$AB_NCP_VERSION, #3          ; 0784
                           06  1A 0001B                      BGTRU    1$
              01  A0    FC  8F  8A 0001D                     BICB2    #252, 1(R0)                     ; 0785
                           04 00022                          RET
        60          06      0A      01  F0 00023 1$:          INSV     #1, #10, #6, (R0)              ; 0790
                           04 00028 2$:                       RET                                    ; 0794

; Routine Size:  41 bytes,     Routine Base:  $CODE$ + 031A
```

MOMPARSE   H 8
V04-000   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 29
           mom$parse_error Build and signal error (action 14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (15)

```
 809   0795  1 %SBTTL 'mom$parse_error  Build and signal error (action routine)'
 810   0796  1 GLOBAL ROUTINE mom$parse_error : NOVALUE =
 811   0797  1
 812   0798  1 !++
 813   0799  1 ! FUNCTIONAL DESCRIPTION:
 814   0800  1 !     This NPARSE action routine is called if an error is found when parsing
 815   0801  1 !     the parameters of a NICE command message.  It signals the error.
 816   0802  1 !
 817   0803  1 ! FORMAL PARAMETERS:
 818   0804  1 !     NONE
 819   0805  1 !
 820   0806  1 ! IMPLICIT INPUTS:
 821   0807  1 !     NPARSE argument block.
 822   0808  1 !         NPA$L_PARAM contains the error code.
 823   0809  1 !         NPA$L_FLDPTR points to the parameter in the message.
 824   0810  1 !
 825   0811  1 ! SIDE EFFECTS:
 826   0812  1 !     Error message is signalled.
 827   0813  1 !
 828   0814  1 !--
 829   0815  1
 830   0816  2 BEGIN
 831   0817  2
 832   0818  2 $npa_argdef;                               ! Define NPARSE block reference
 833   0819  2
 834   0820  2 LOCAL
 835   0821  2     err_code,                              ! Error code
 836   0822  2     err_detail;                            ! Error detail
 837   0823  2
 838   0824  2 err_code = .nparse_block [npa$l_param]; ! Get error code
 839   0825  2 !
 840   0826  2 ! Check for parameters to move in addition to error status.
 841   0827  2 !
 842   0828  2 err_detail = (
 843   0829  3     SELECTONEU .err_code OF
 844   0830  3         SET
 845   0831  3         [nma$c_sts_pty,
 846   0832  3         nma$c_sts_pva,
 847   0833  3         nma$c_sts_pna]:
 848   0834  3             .(.nparse_block [npa$l_msgptr] - 2)<0,16,0>; ! Get detail code
 849   0835  3
 850   0836  3         [OTHERWISE]:
 851   0837  3             -1;
 852   0838  3
 853   0839  2         TES);
 854   0840  2
 855   0841  2 mom$error (.err_code, .err_detail);                 ! Signal error message
 856   0842  2
 857   0843  1 END;                                  ! End of MOM$PARSE_ERROR
```

```
                                        0000 00000      .ENTRY  MOM$PARSE_ERROR, Save nothing     ; 0796
                            51     20  AC D0 00002      MOVL    32(NPARSE_BLOCK), ERR_CODE         ; 0824
                  FFFFFFEA  8F         51 D1 00006      CMPL    ERR_CODE, #-22                     ; 0831
```

```
                                           12  13  0000D          BEQL    1$
                      FFFFFFF0  8F             51  D1  0000F          CMPL    ERR_CODE, #-16
                                           09  13  00016          BEQL    1$
                      FFFFFFFA  8F             51  D1  00018          CMPL    ERR_CODE, #-6
                                           0A  12  0001F          BNEQ    2$
                                  50    08  AC  D0  00021 1$:      MOVL    8(NPARSE_BLOCK), R0
                                  50    FE  A0  3C  00025          MOVZWL  -2(R0), ERR_DETAIL
                                           03  11  00029          BRB     3$
                                  50        01  CE  0002B 2$:      MNEGL   #1, ERR_DETAIL
                                           50  DD  0002E 3$:      PUSHL   ERR_DETAIL
                                           51  DD  00030          PUSHL   ERR_CODE
                      00000000G  00         02  FB  00032          CALLS   #2, MOM$ERROR
                                           04  00039          RET
```

```
                                                                                        : 0834



                                                                                        : 0837
                                                                                        : 0841


                                                                                        : 0843
```

; Routine Size: 58 bytes,   Routine Base: $CODE$ + 0343

J 8

MOMPARSE   Maintenance Operations NPARSE action routines f 16-Sep-1984 02:06:08   VAX-11 Bliss-32 V4.0-742   Page 31
V04-000   mom$prsmoperr MOP parameter parsing error   14-Sep-1984 12:44:36   DISK$VMSMASTER:[MOM.SRC]MOMPARSE.B32;1 (16)

```
 859    0844  1  %SBTTL 'mom$prsmoperr  MOP parameter parsing error'
 860    0845  1  GLOBAL ROUTINE mom$prsmoperr =
 861    0846  1
 862    0847  1  !++
 863    0848  1  ! FUNCTIONAL DESCRIPTION:
 864    0849  1  !
 865    0850  1  !     This routine sets up response message information for errors
 866    0851  1  !     encountered in parsing MOP messages.
 867    0852  1  !
 868    0853  1  ! FORMAL PARAMETERS:
 869    0854  1  !
 870    0855  1  !     NONE
 871    0856  1  !
 872    0857  1  ! IMPLICIT INPUTS:
 873    0858  1  !
 874    0859  1  !     The NPARSE argument block (NPA$L_PARAM) contains the code for
 875    0860  1  !     the optional text message to be signalled.
 876    0861  1  !
 877    0862  1  ! IMPLICIT OUTPUTS:
 878    0863  1  !
 879    0864  1  !     MOM$AB_MSGBLOCK contains the response message information.
 880    0865  1  !
 881    0866  1  !--
 882    0867  1
 883    0868  2  BEGIN
 884    0869  2
 885    0870  2  $npa_argdef;
 886    0871  2
 887    0872  2  !
 888    0873  2  ! Set up MOP protocol error with optional text message.
 889    0874  2  !
 890    0875  2  mom$ab_msgblock [msb$l_flags] = msb$m_msg_fld;
 891    0876  2  mom$ab_msgblock [msb$b_code]  = nma$c_sts_lpr;
 892    0877  2  mom$ab_msgblock [msb$l_text]  = .nparse_block [npa$l_param];
 893    0878  2
 894    0879  2  RETURN success
 895    0880  2
 896    0881  1  END;                              ! End of mom$prsmoperr
```

```
                              0004 00000        .ENTRY   MOM$PRSMOPERR, Save R2          ; 0845
        52 00000000G  00  9E 00002        MOVAB    MOM$AB MSGBLOCK, R2
                  62       04  D0 00009        MOVL     #4, MOM$AB_MSGBLOCK              ; 0875
     04   A2            11  8E 0000C        MNEGB    #17, MOM$AB_MSGBLOCK+4           ; 0876
     0C   A2       20  AC  D0 00010        MOVL     32(NPARSE_BLOCK), MOM$AB_MSGBLOCK+12  ; 0877
                  50       01  D0 00015        MOVL     #1, R0                          ; 0879
                              04 00018        RET                                      ; 0881
```

; Routine Size: 25 bytes,   Routine Base: $CODE$ + 037D

```
 897    0882  1
 898    0883  1
 899    0884  1
```

```
;  900         0885  1 END                                          ! End of module
;  901         0886  1
;  902         0887  0 ELUDOM
```

;
;
;   PSECT SUMMARY
;
;   Name   Bytes   Attributes
;
; $CODE$ 918   NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $PLIT$ 15   NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

;   Library Statistics
;
;   -------- Symbols --------   Pages   Processing
;   File   Total   Loaded   Percent   Mapped   Time
;
; _255DUA28:[MOM.OBJ]MOMLIB.L32;1   194   33   17   21   00:00.1
; _255DUA28:[SHRLIB]NMALIBRY.L32;1   887   11   1   47   00:00.2
; _255DUA28:[SHRLIB]NET.L32;1   1279   0   0   63   00:00.3
; _255DUA28:[SYSLIB]STARLET.L32;1   9776   1   0   581   00:03.1

;   COMMAND QUALIFIERS
;
;   BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:MOMPARSE/OBJ=OBJ$:MOMPARSE MSRC$:MOMPARSE/UPDATE=(ENH$:MOMPARSE)

; Size: 918 code + 15 data bytes
; Run Time: 00:21.5
; Elapsed Time: 00:48.7
; Lines/CPU Min: 2471
; Lexemes/CPU-Min: 12398
; Memory Used: 107 pages
; Compilation Complete

MOMMSG
LIS

MOMMAIN
LIS

MOMPARSE
LIS

MOMSERSTA
LIS

MOMMOPSTA
LIS

MOMSERVIC
LIS

MOMMOPLIO
LIS

MOMTESSTA
LIS

MOMRSXDEF
LIS

MOMSUBS
LIS